

Amendments to the Claims

The following listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (amended) ~~A pyrotechnic device~~ An electronic detonator for use in mining or blasting comprising:
 - a) a ground;
 - b) an igniter;
 - c) electrical circuitry connected to said igniter; and,
 - d) a ground connector connected to said electrical circuitry and to said ground.
2. (canceled)
3. (amended) The ~~device~~ electronic detonator of claim 1, further comprising a metallic enclosure.
4. (amended) The ~~device~~ electronic detonator of claim 3, wherein said ~~device is a detonator and said~~ metallic enclosure is a detonator shell, wherein said detonator shell is said ground.
5. (amended) The ~~device~~ electronic detonator of claim 1, wherein said electrical circuitry includes an integrated circuit chip, and said ground connector is connected to said integrated circuit chip.

6. (amended) The ~~device~~ electronic detonator of claim 5, wherein said integrated circuit chip includes an ESD-protective structure.
7. (amended) The ~~device~~ electronic detonator of claim 4, wherein said electrical circuitry includes an integrated circuit chip, and said ground connector is connected to said integrated circuit chip.
8. (amended) The ~~device~~ electronic detonator of claim 7, wherein said integrated circuit chip includes an ESD-protective structure.
9. (amended) The ~~device~~ electronic detonator of claim 1, further comprising encapsulation surrounding at least part of said electrical circuitry.
10. (amended) The ~~device~~ electronic detonator of claim 2 4, further comprising encapsulation surrounding at least part of said electrical circuitry.
11. (amended) The ~~device~~ electronic detonator of claim 9, wherein said ground connector extends through said encapsulation.
12. (amended) The ~~device~~ electronic detonator of claim 11, wherein said electrical circuitry includes an integrated

- circuit chip, and said ground connector is connected to said integrated circuit chip.
13. (canceled)
14. (amended) The ~~device~~ electronic detonator of claim 6, wherein said integrated circuit chip includes a ground pin, and said ground connector is connected to said chip at said ground pin.
15. (amended) The ~~device~~ electronic detonator of claim 8, wherein said integrated circuit chip includes a ground pin, and said ground connector is connected to said integrated circuit chip at said ground pin.
16. (canceled)
17. (amended) The ~~device~~ electronic detonator of claim 1, wherein said ground connector is a simple metallic lead.
18. (amended) The ~~device~~ electronic detonator of claim 17, wherein said ~~device is a detonator~~ electronic detonator.
19. (canceled)
20. (amended) An electronic detonator for use in mining or blasting comprising:
- a) a metallic detonator shell;
 - b) an igniter;

- c) electrical circuitry connected to said igniter and including an integrated circuit chip having an ESD-protective structure and a ground pin;
- d) encapsulation surrounding at least part of said electrical circuitry; and,
- e) a ground connector connected to said ground pin and to said detonator shell and extending through said encapsulation, wherein said ground connector is a simple metallic lead.

Amendments to the Drawings

The attached drawing sheet includes a change to Fig. 4. The sheet includes only Fig. 4, the original of which it replaces. Per the objection made in the Office Action, this figure has been revised to include a depiction of the grounding of pin 13.

Attachments: Replacement Sheet
Annotated Sheet Showing Changes